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(54) A system for locating automatically video segment boundaries and for extraction of key-frames

(57) The present invention describes an automatic video content parser for parsing video shots such that they are represented in their native media and retrievable based on their visual contents. This system provides methods for temporal segmentation of video sequences into individual camera shots using a novel twin-comparison method. The method is capable of detecting both

camera shots implemented by sharp break and gradual transitions implemented by special editing techniques, including dissolve, wipe, fade-in and fade-out; and content based key frame selection of individual shots by analysing the temporal variation of video content and select a key frame once the difference of content between the current frame and a preceding selected key frame exceeds a set of preselected thresholds.

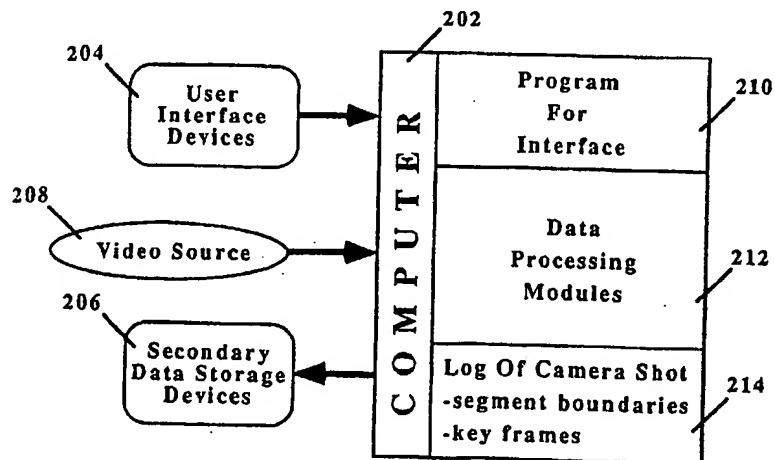


FIG. 2



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EUROPEAN SEARCH REPORT

Application Number
EP 95 30 4387

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	<p>MULTIMEDIA SYSTEMS, vol. 1, no. 1, 1993, pages 10-28, XP000572496 ZHANG H. J. & AL: "Automatic partitioning of full-motion video" * page 12, right-hand column, paragraph 2 - page 15, right-hand column, paragraph 3.2 * * page 17, left-hand column, paragraph 4 - page 19, right-hand column, paragraph 5 * * page 26, right-hand column, paragraph 6 - page 27, right-hand column, paragraph 6.2 *</p> <p>-----</p> <p>A EP-A-0 555 873 (INTEL CORP) 18 August 1993 * the whole document *</p> <p>-----</p>	1-10	<p>G06T7/20 G11B27/10 G06F17/30</p>
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G06F G06T
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search		Examiner
THE HAGUE	4 June 1996		Fournier, C
CATEGORY OF CITED DOCUMENTS		<p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>	
<p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p>			